

FIG. 1

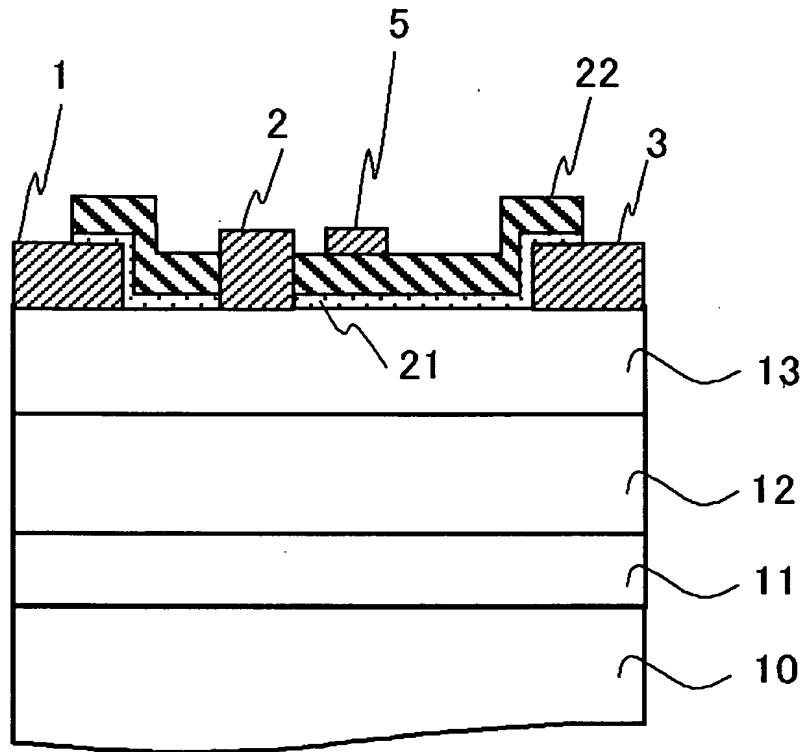


FIG. 2

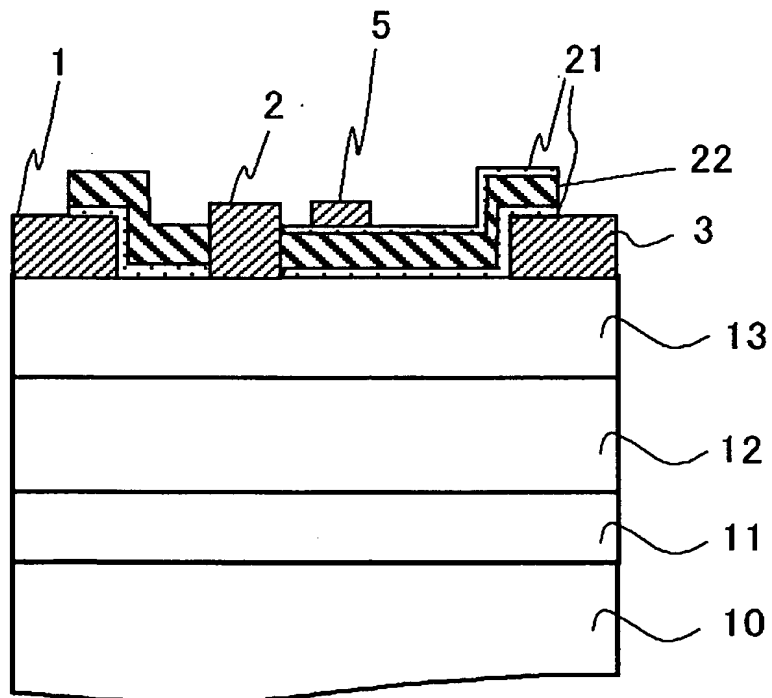


FIG. 3

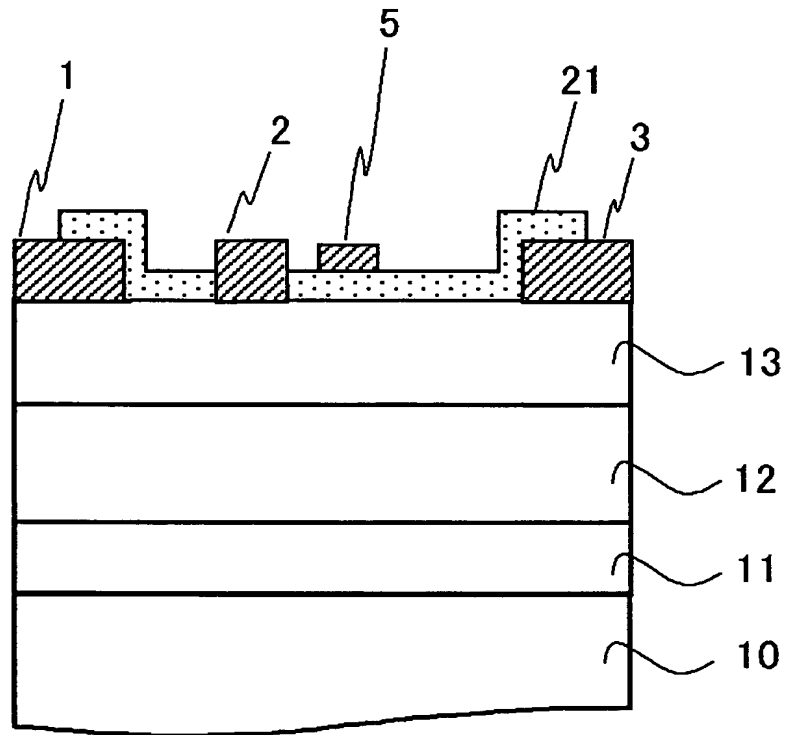
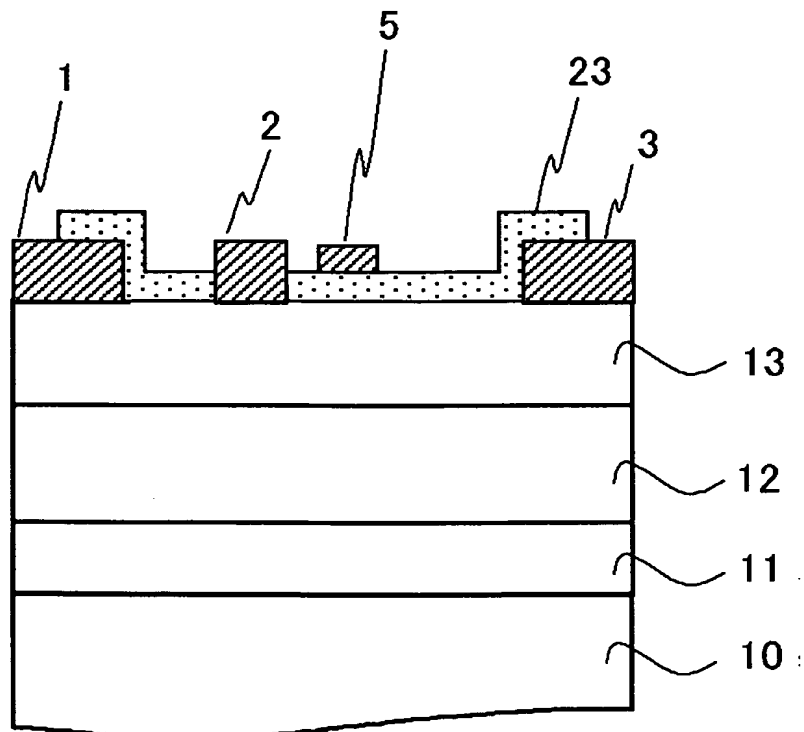


FIG. 4



3 / 27

FIG. 5

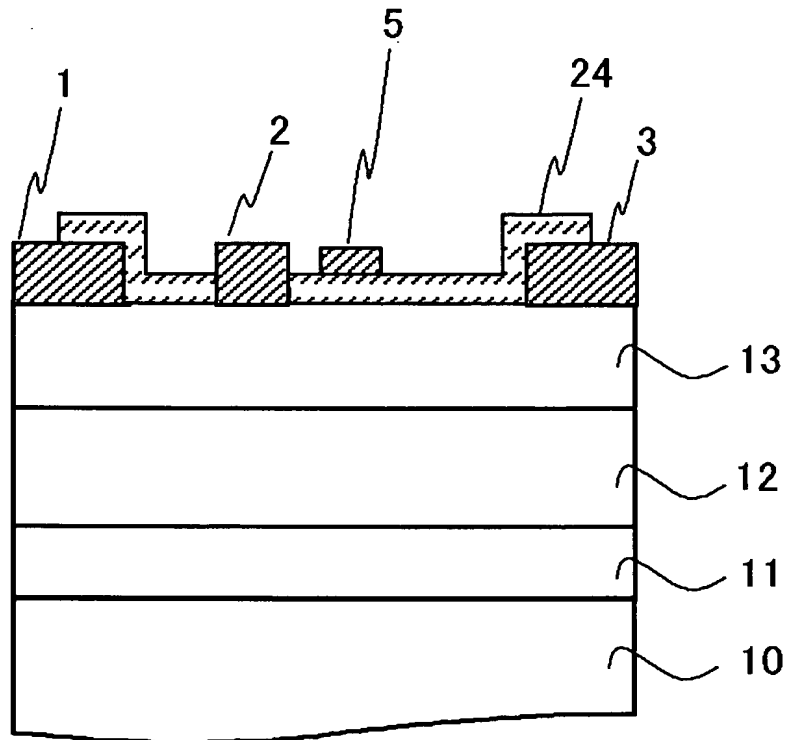
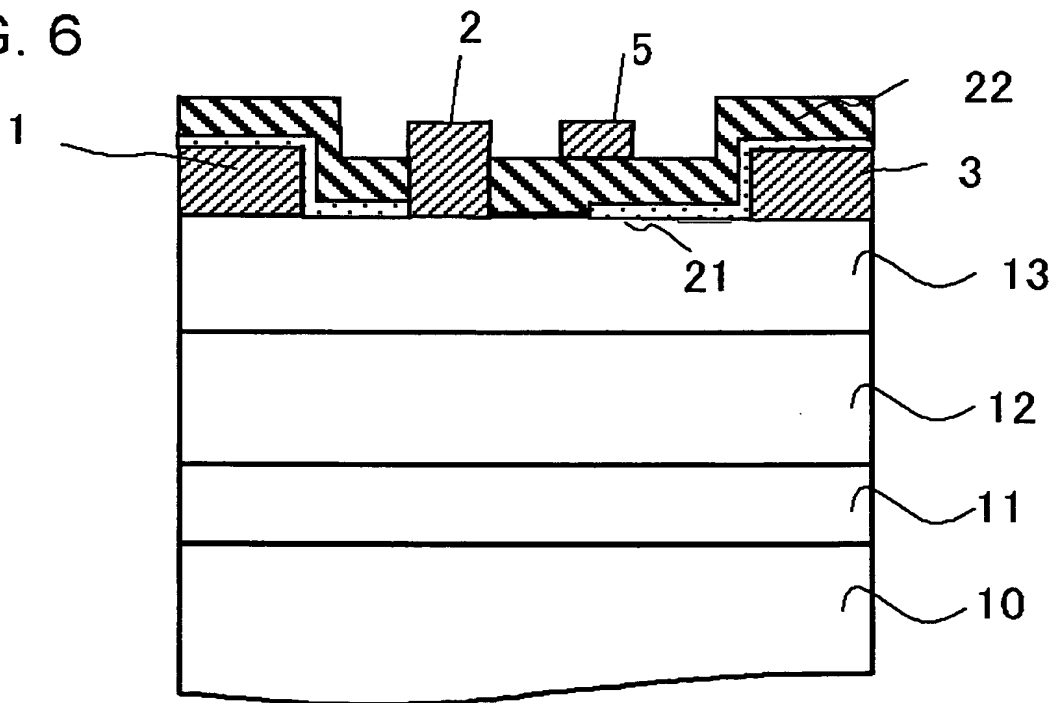
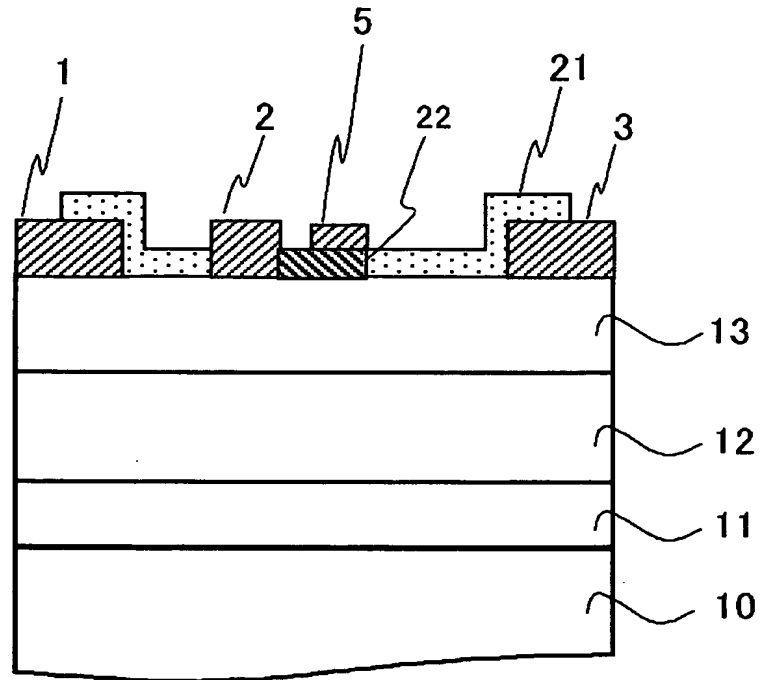


FIG. 6

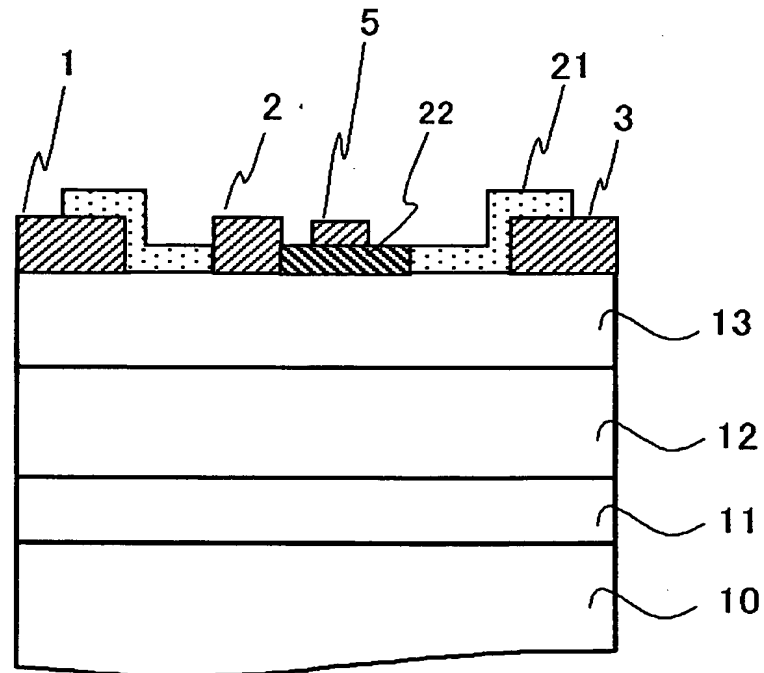


4 / 27

FIG. 7
(a)

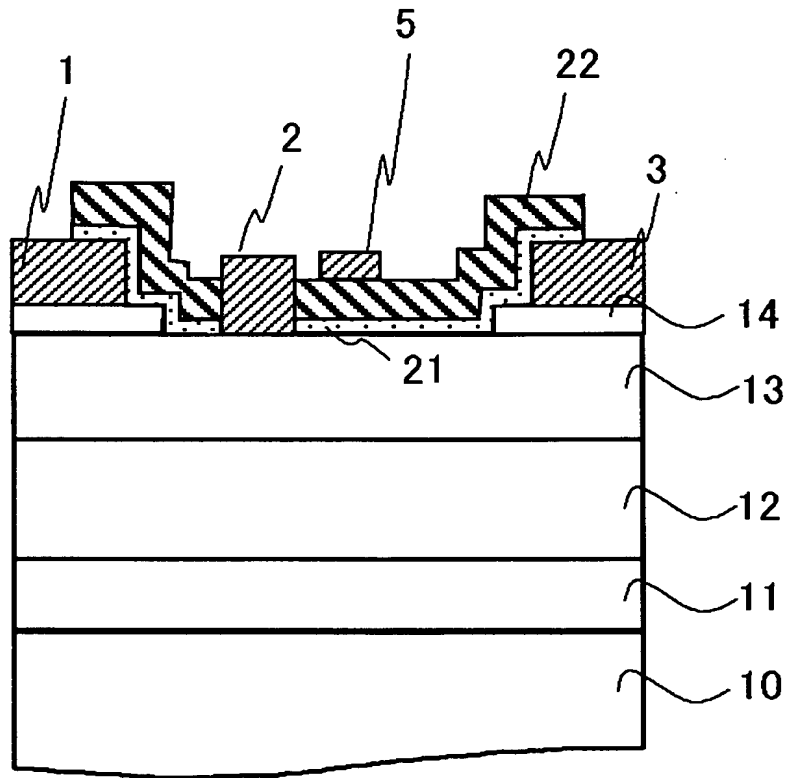


(b)



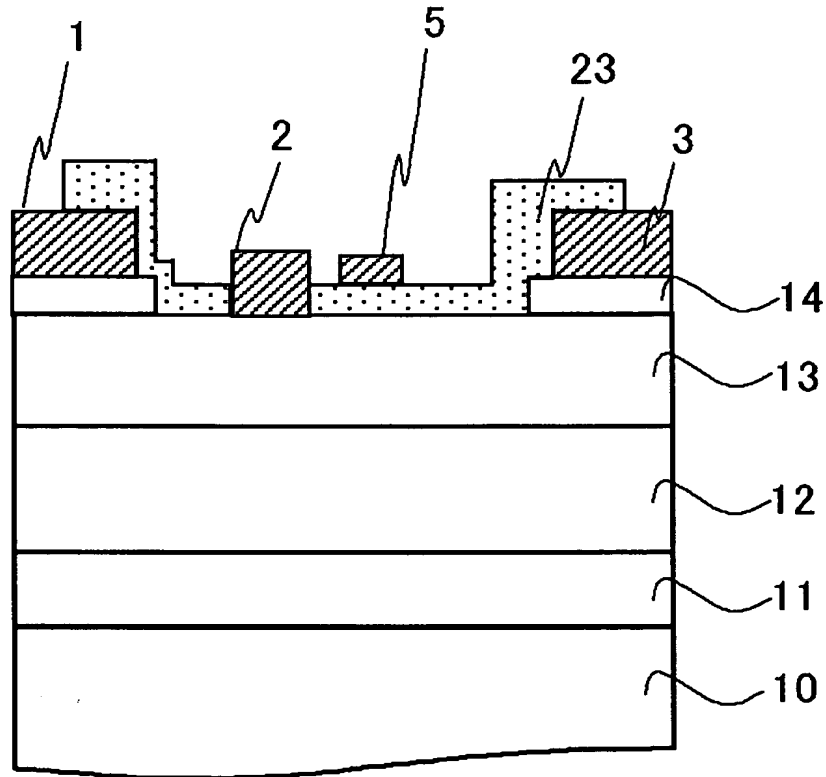
5 / 27

FIG. 8



6 / 27

FIG. 9



7 / 27

FIG. 10

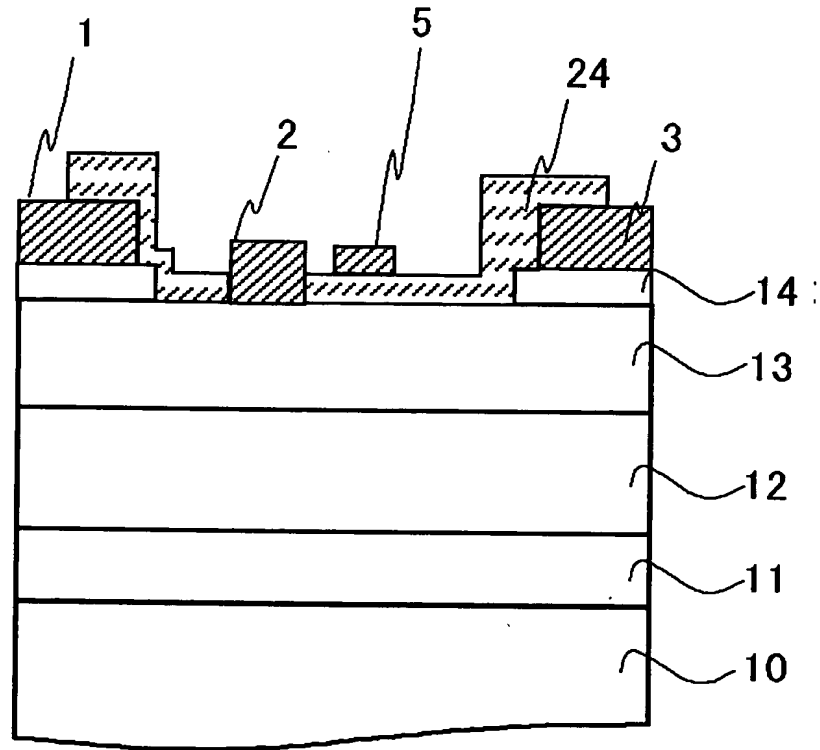
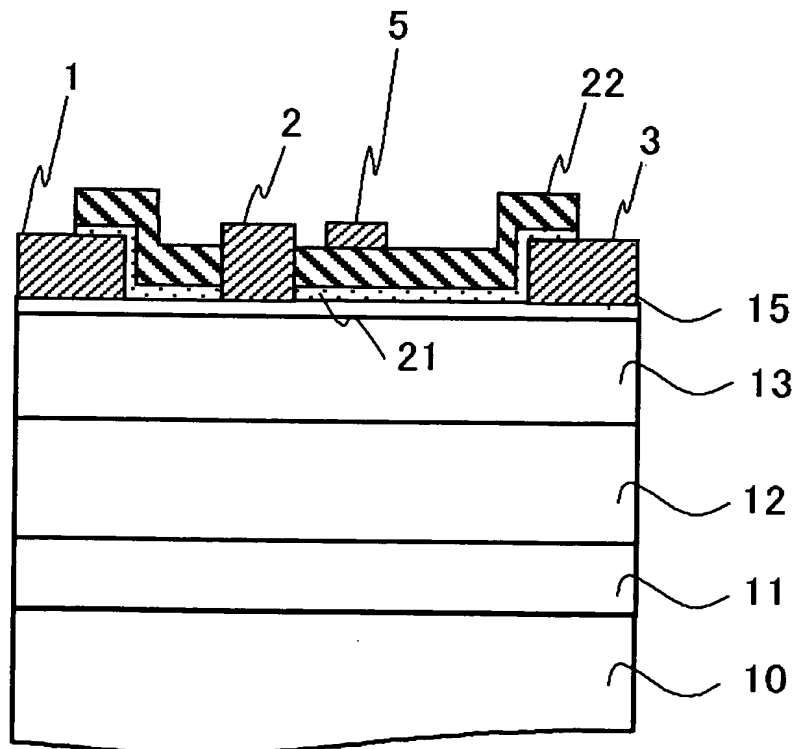
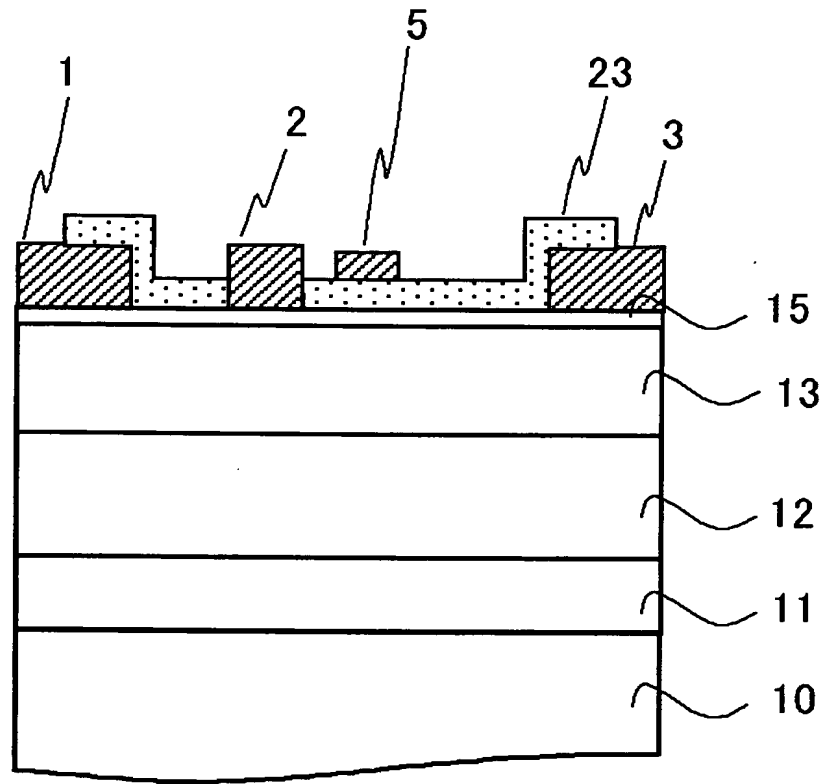


FIG. 11



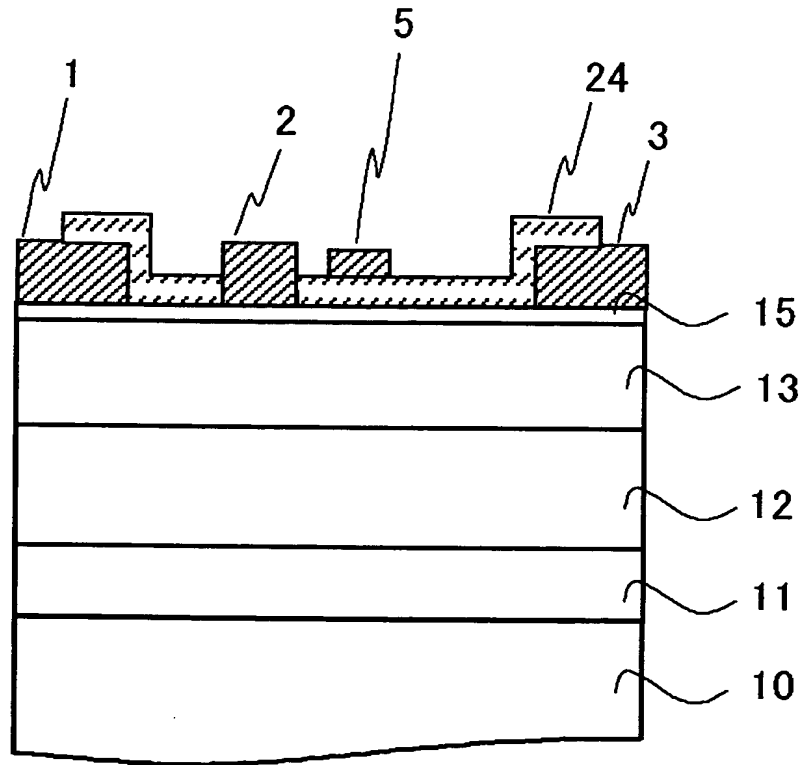
8 / 27

FIG. 12



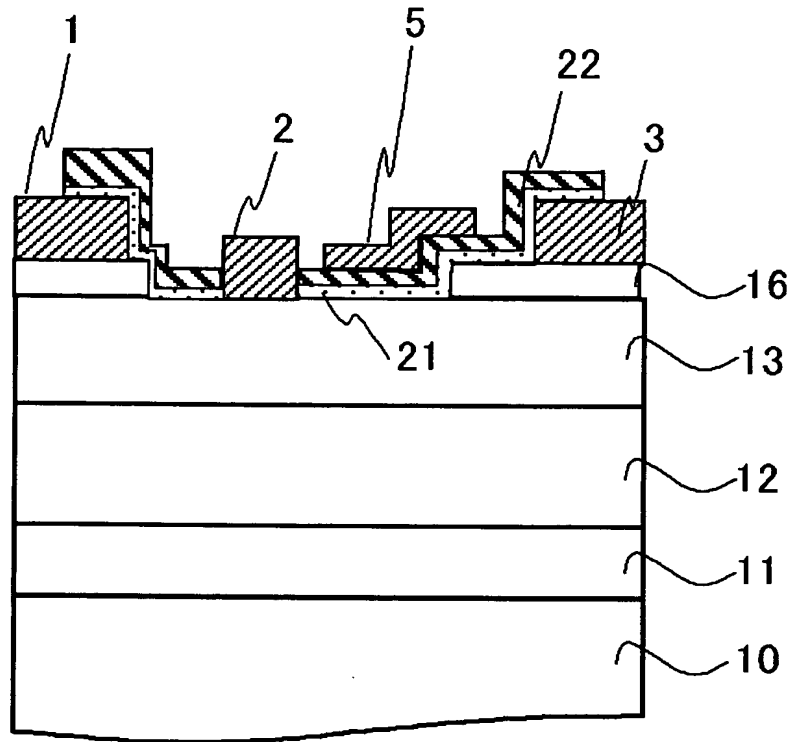
9 / 27

FIG. 13



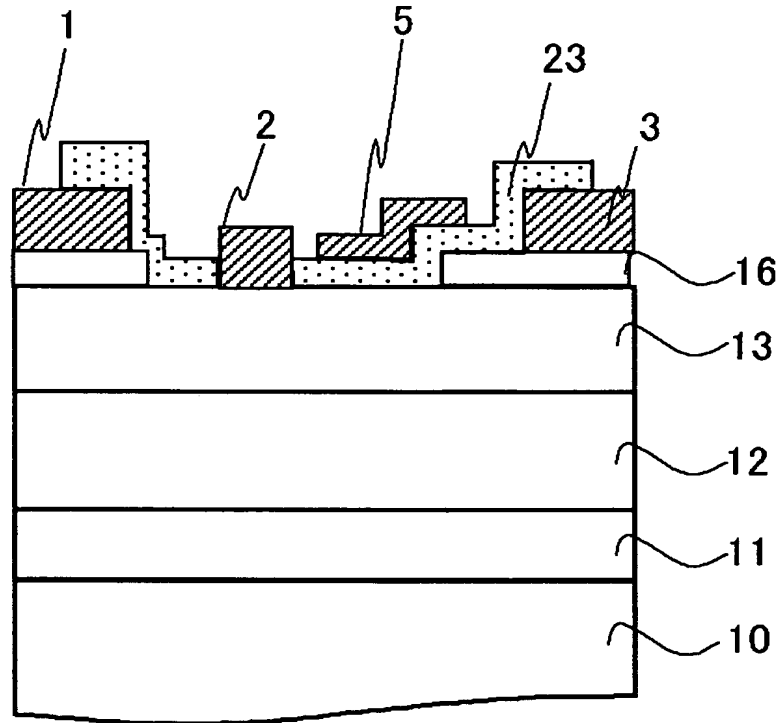
10 / 27

FIG. 14



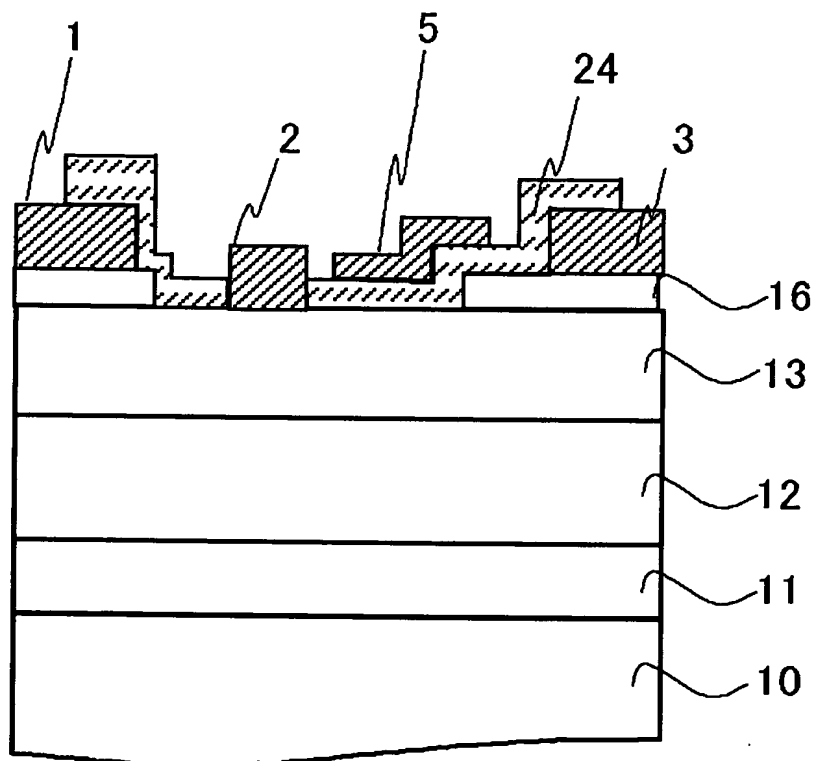
11 / 27

FIG. 15



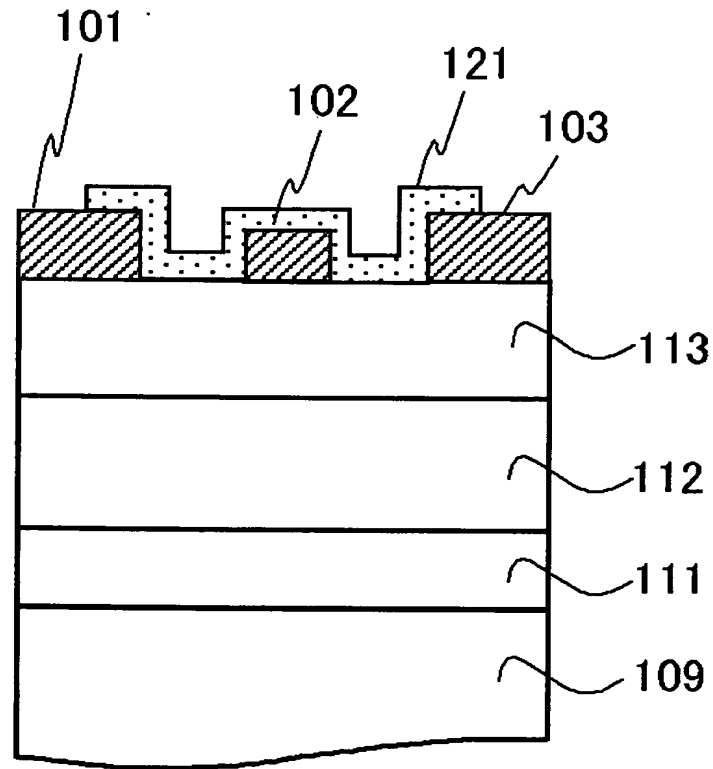
12 / 27

FIG. 16



13 / 27

FIG. 17



14 / 27

FIG. 18

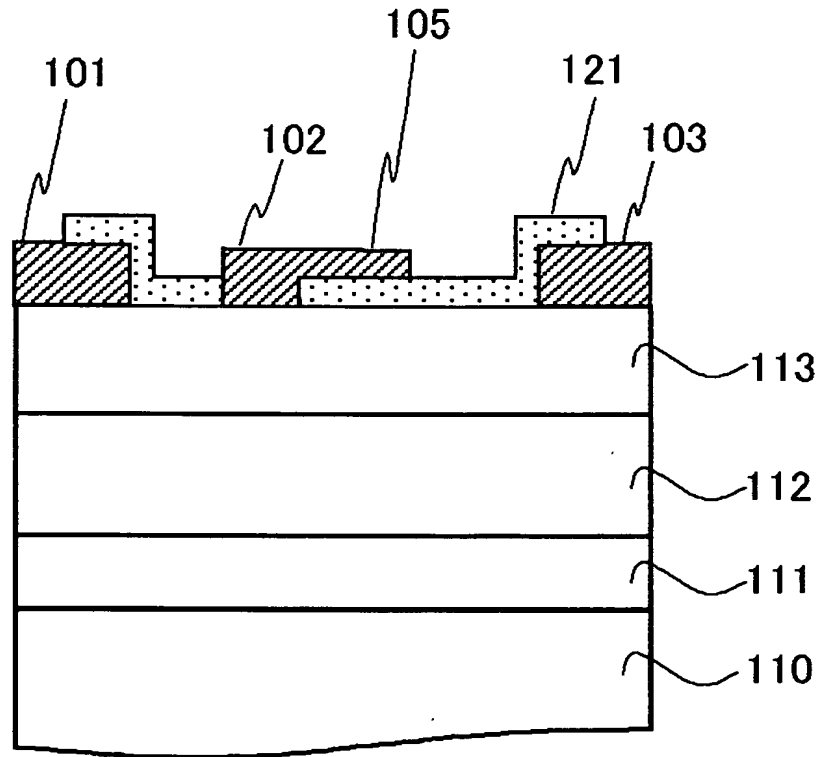


FIG. 19

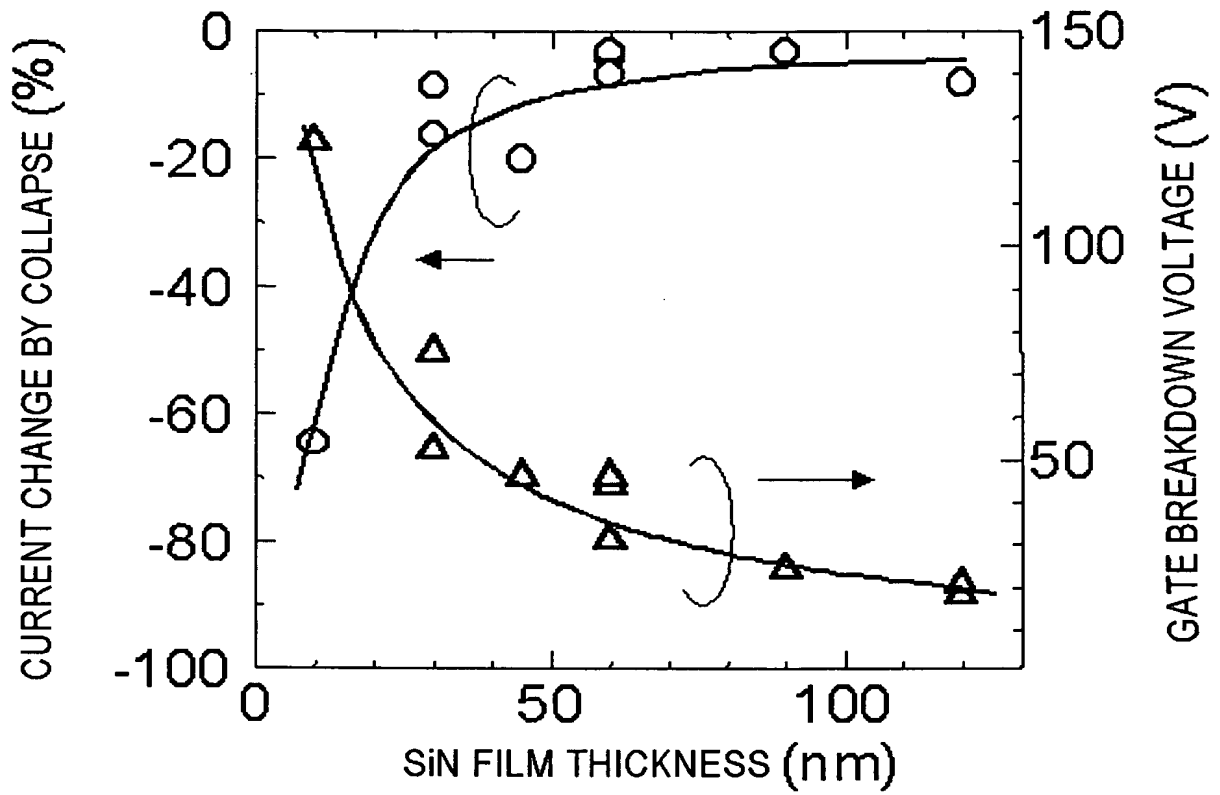
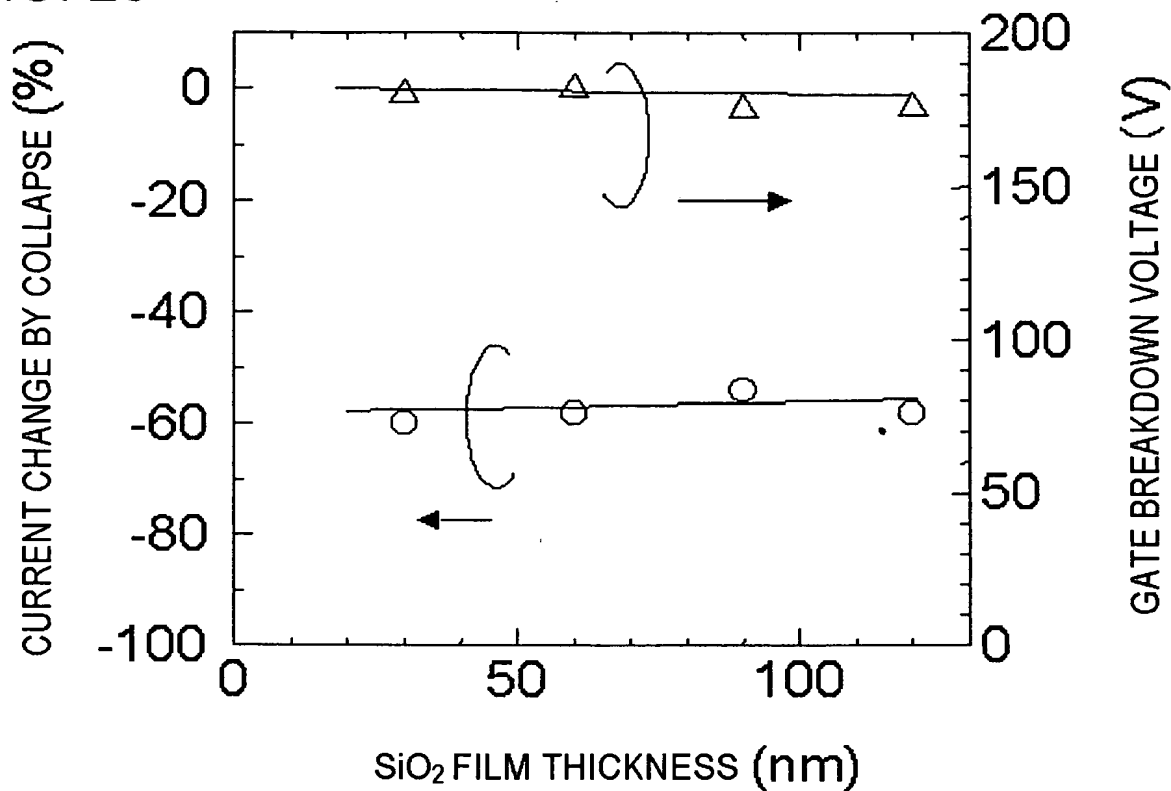
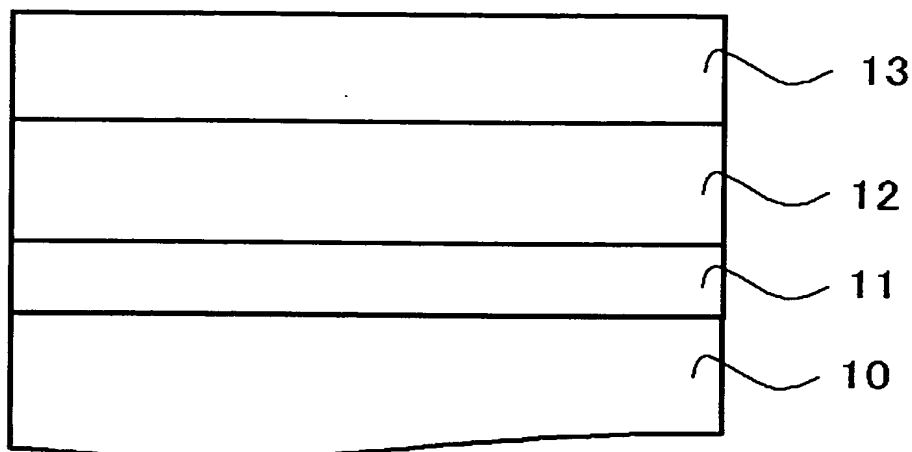


FIG. 20

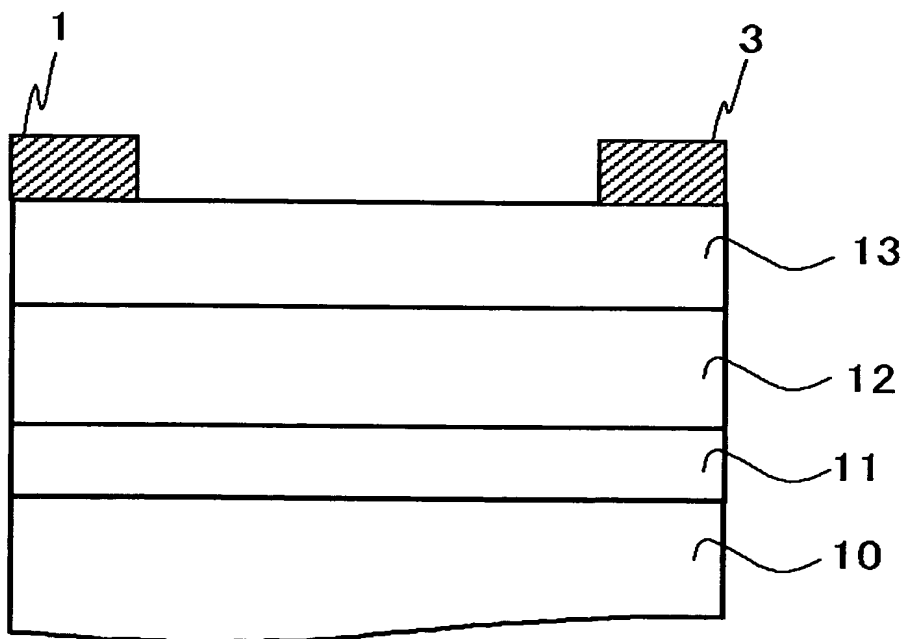


17 / 27

FIG. 21



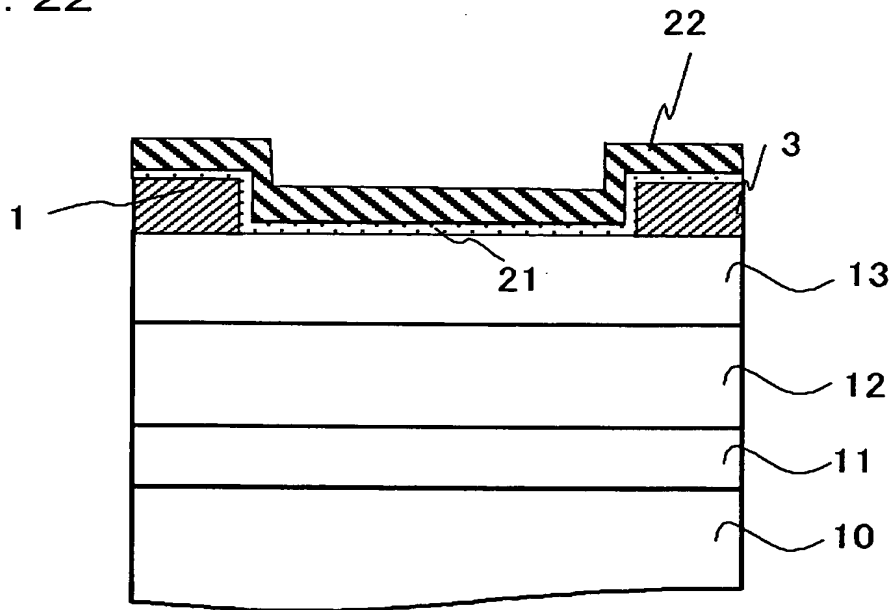
(a)



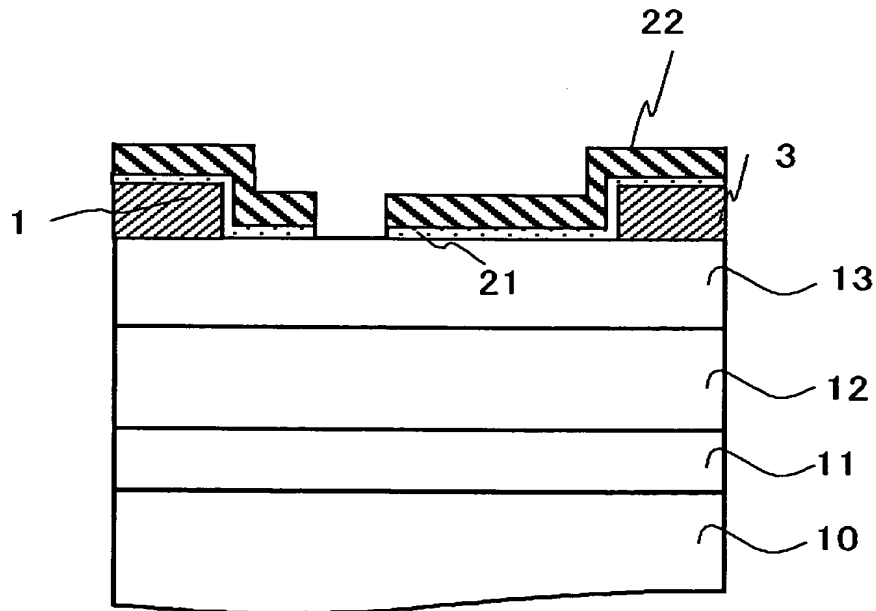
(b)

18 / 27

FIG. 22



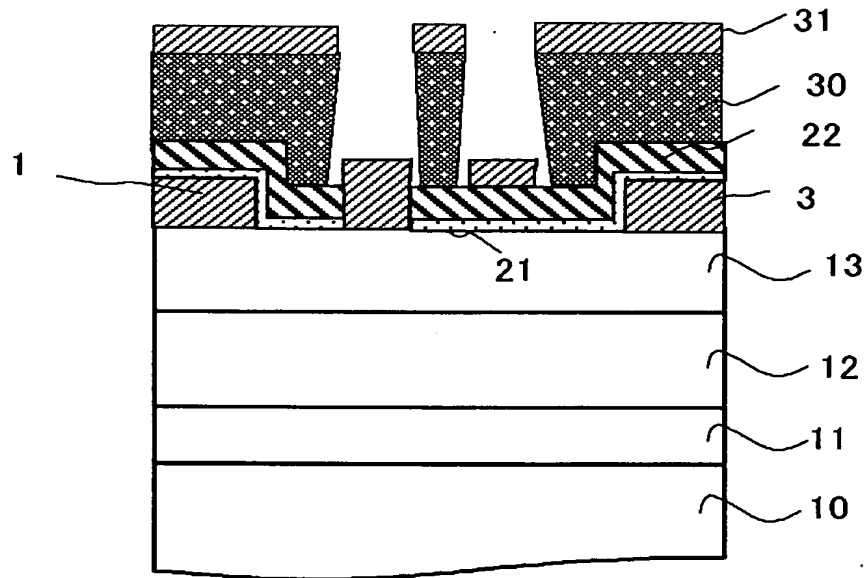
(c)



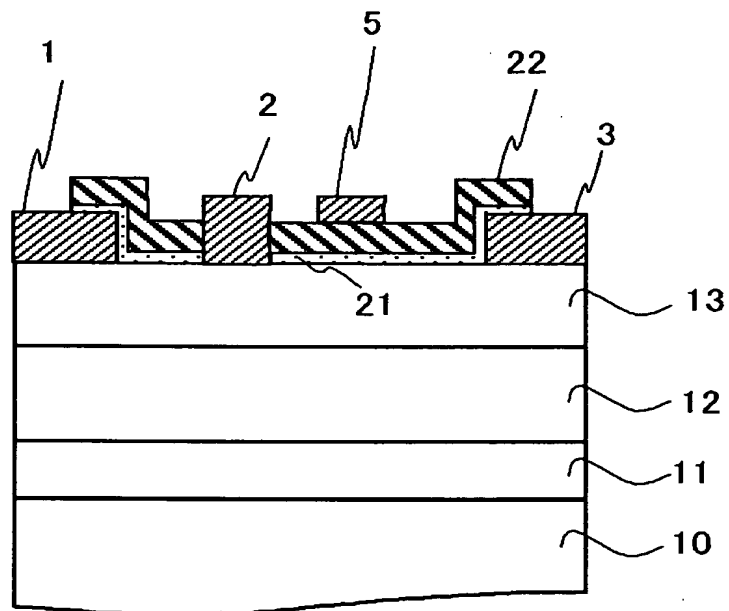
(d)

19 / 27

FIG. 23



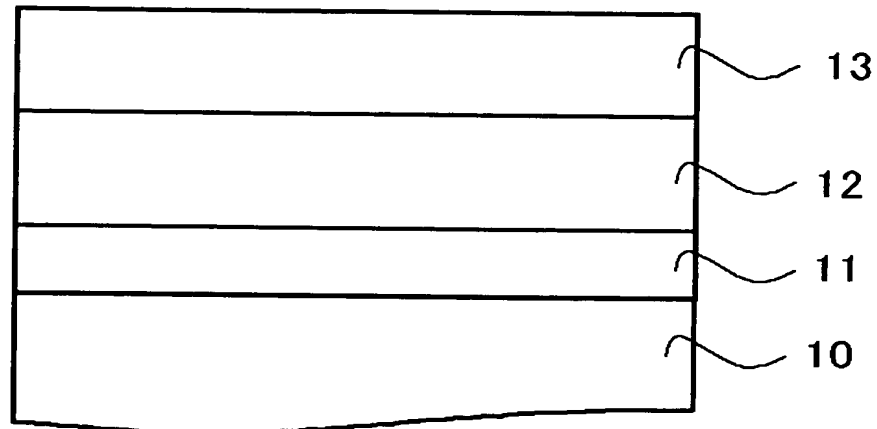
(e)



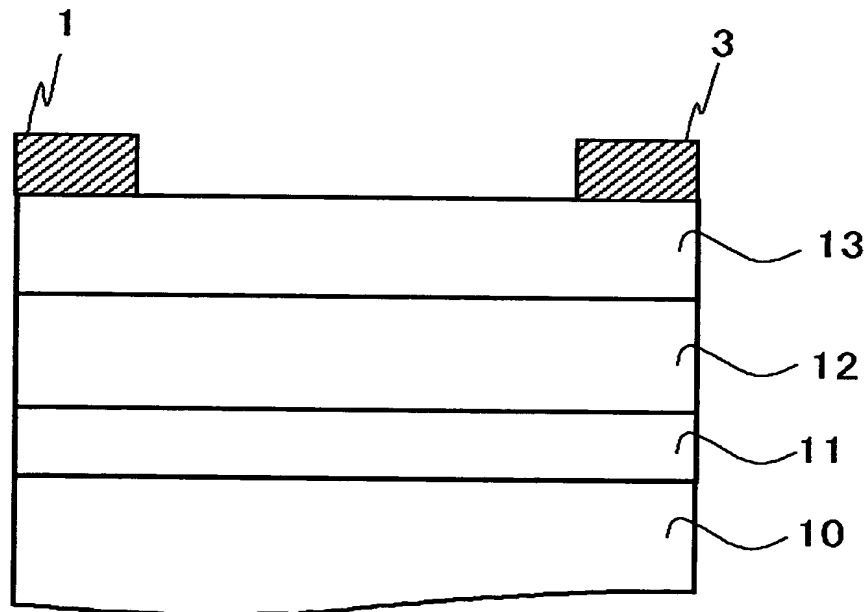
(f)

20 / 27

FIG. 24



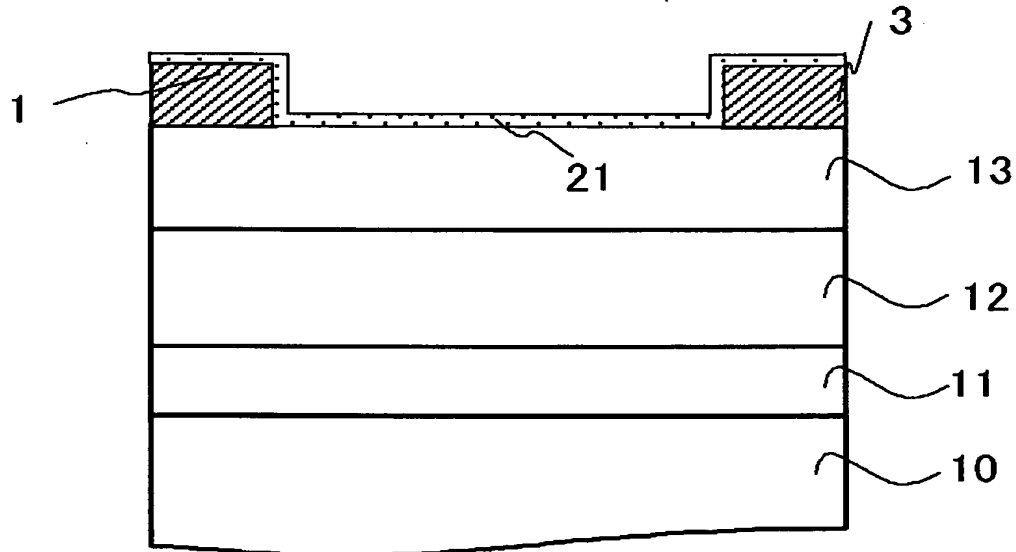
(a)



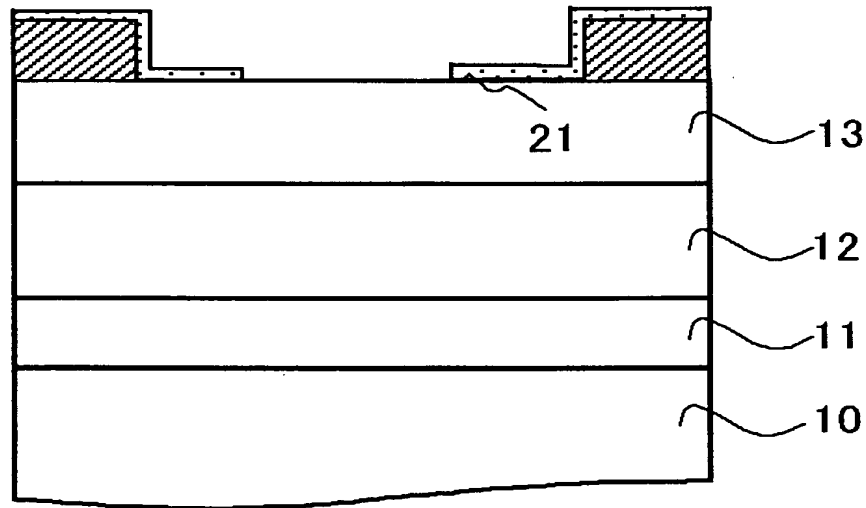
(b)

21 / 27

FIG. 25



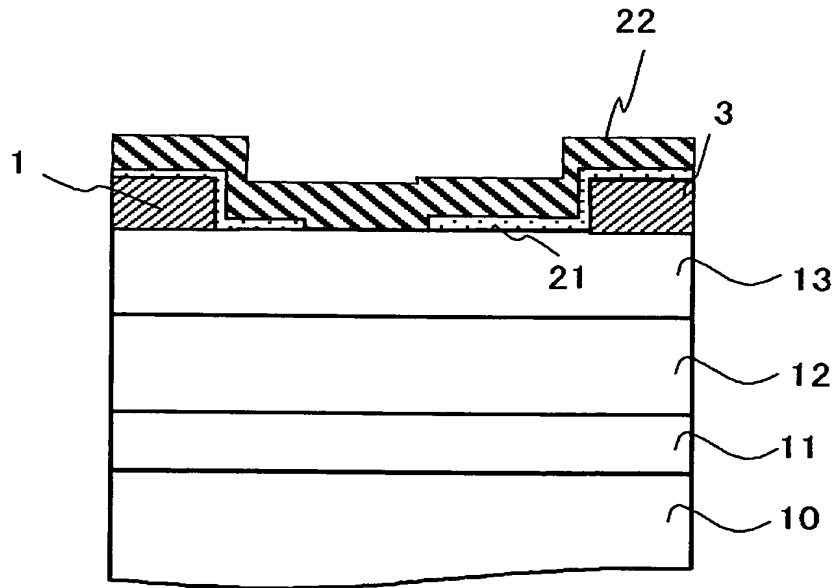
(c)



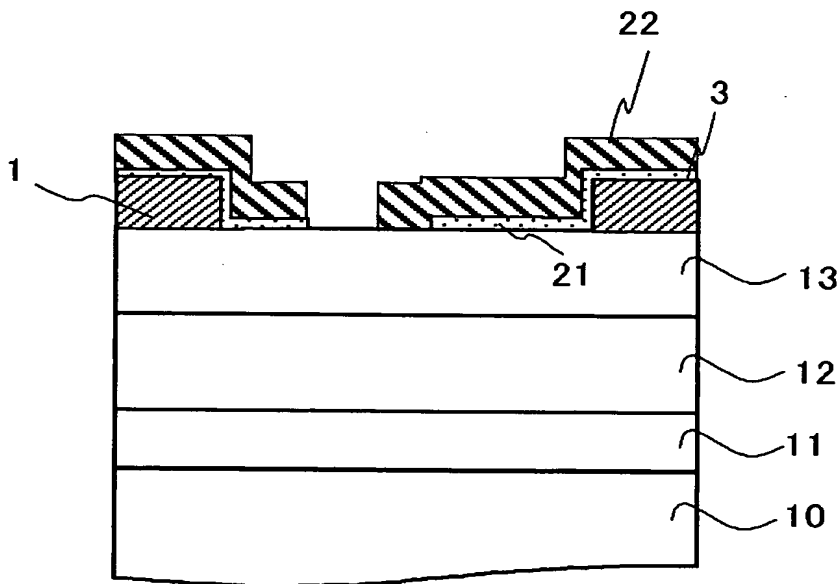
(d)

22 / 27

FIG. 26



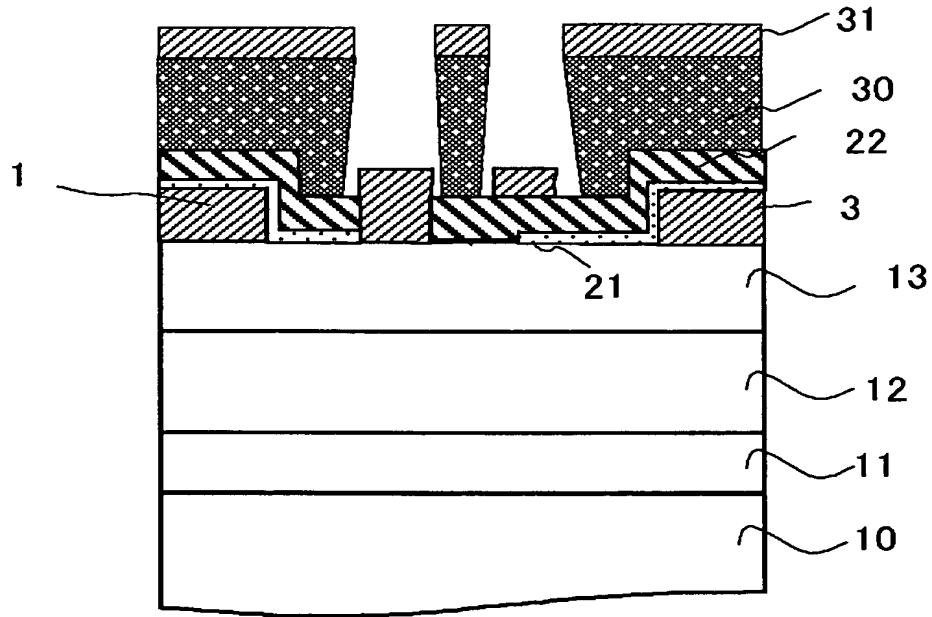
(e)



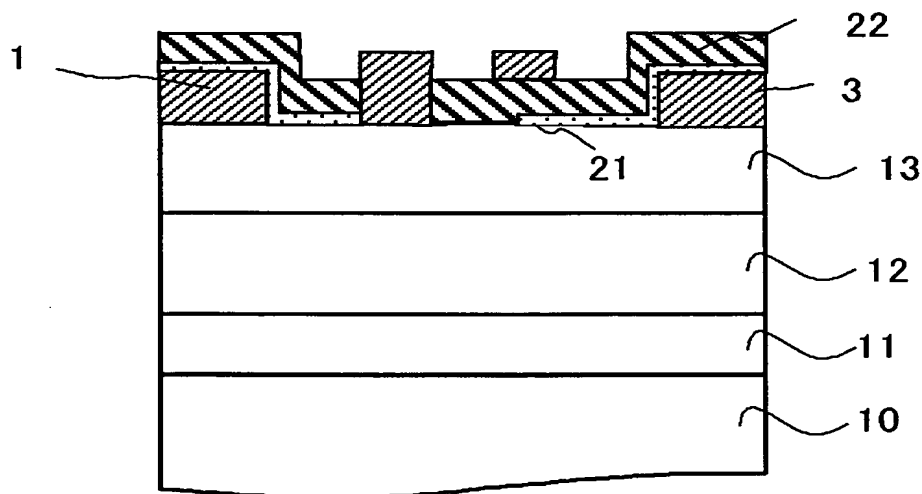
(f)

23 / 27

FIG. 27



(g)



(h)

FIG. 28

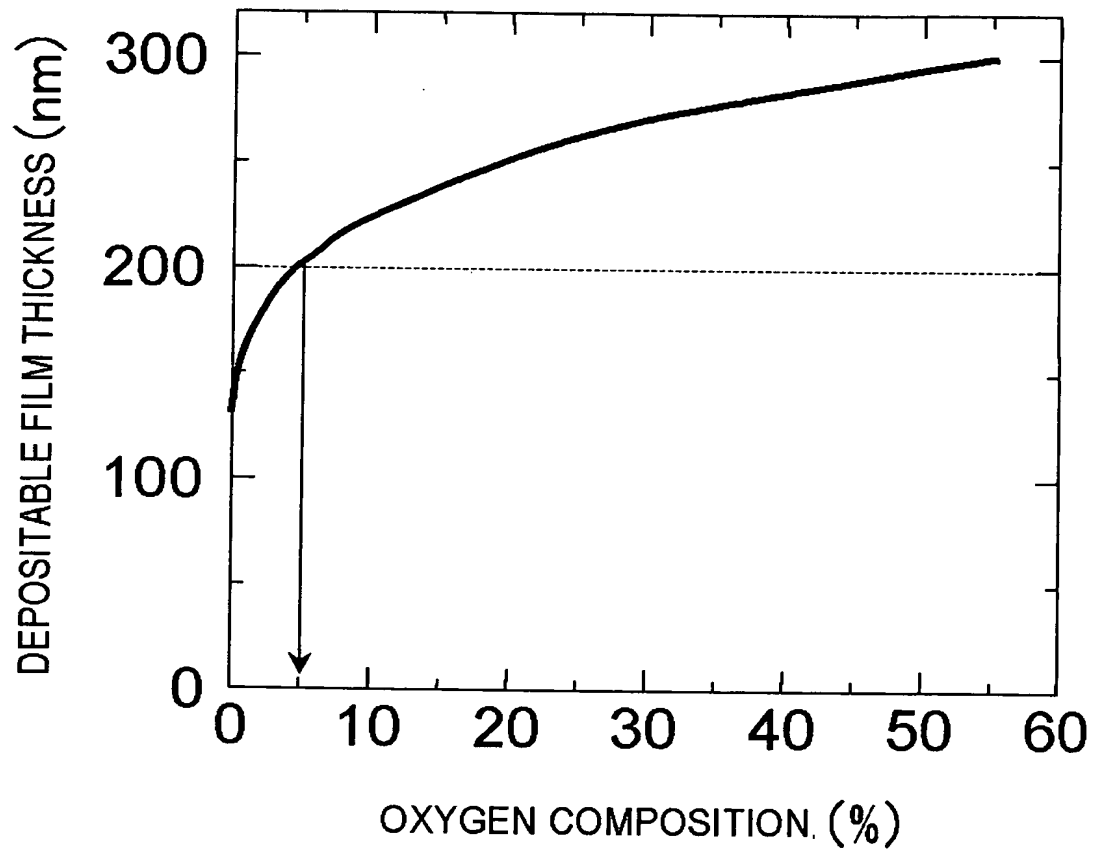
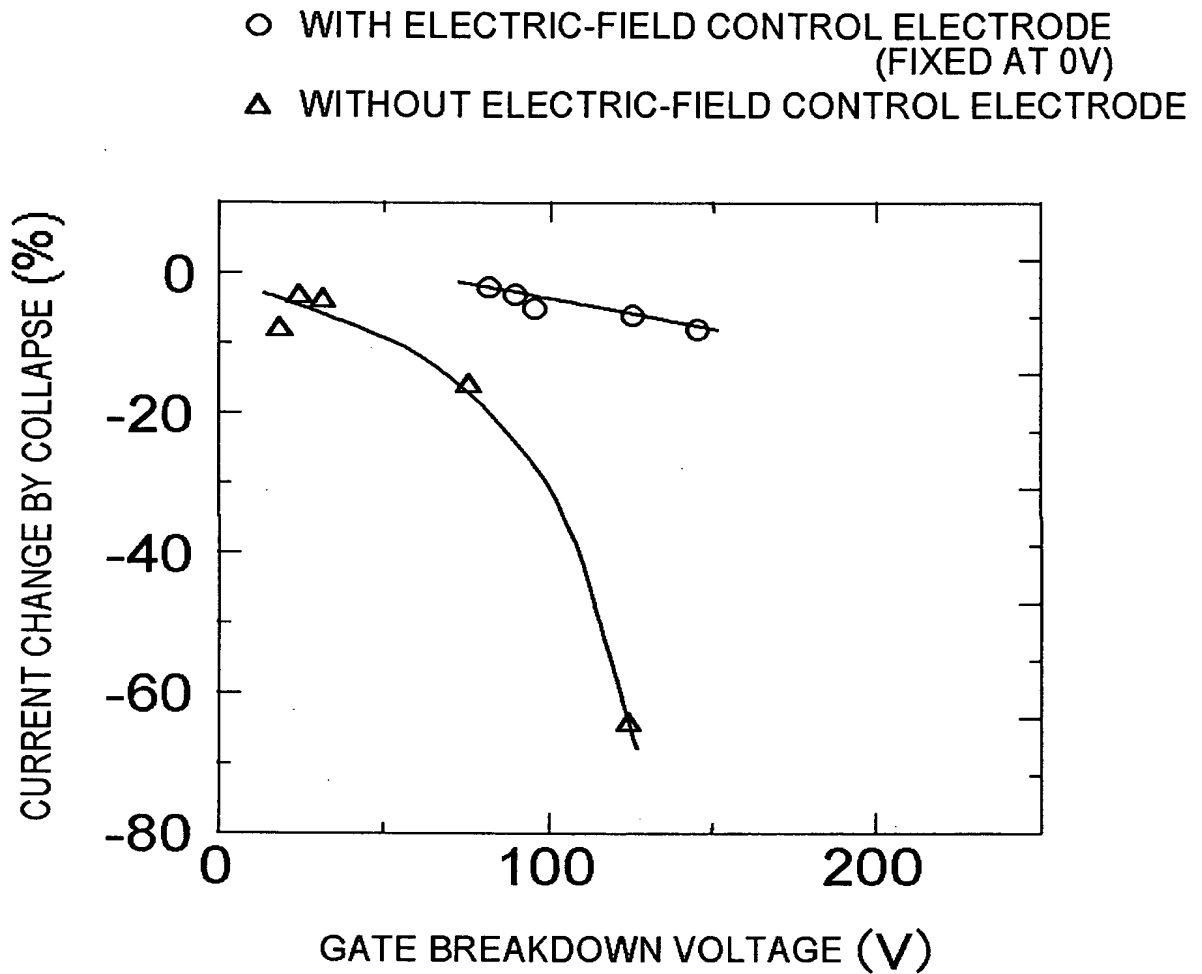


FIG. 29

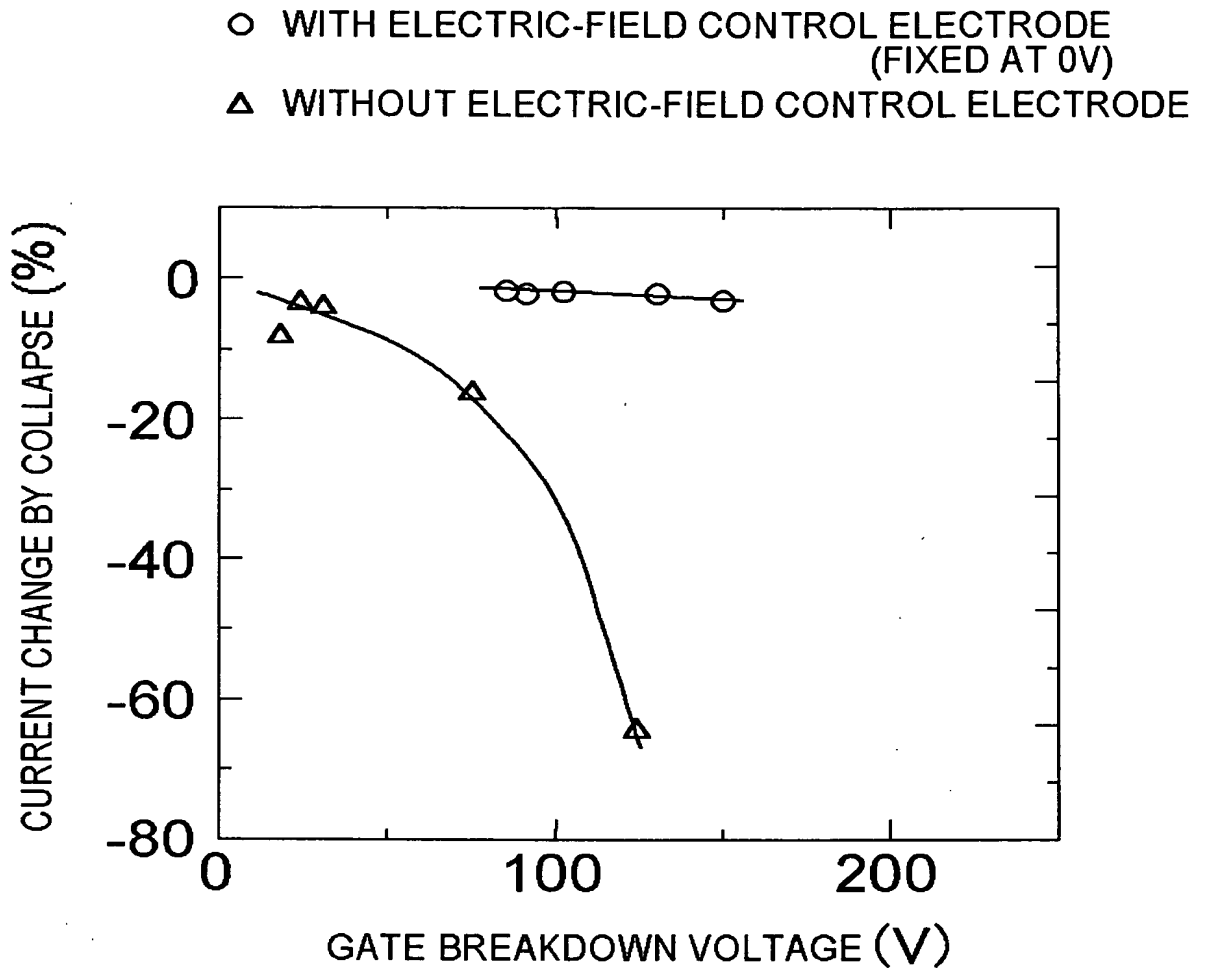


INSULATING FILM : SINGLE-LAYER OF SiN

SIZE OF ELECTRIC-FIELD CONTROL ELECTRODE : $0.5\mu\text{m}$

DISTANCE BETWEEN GATE ELECTRODE
AND ELECTRIC-FIELD CONTROL ELECTRODE : $0.5\mu\text{m}$

FIG. 30

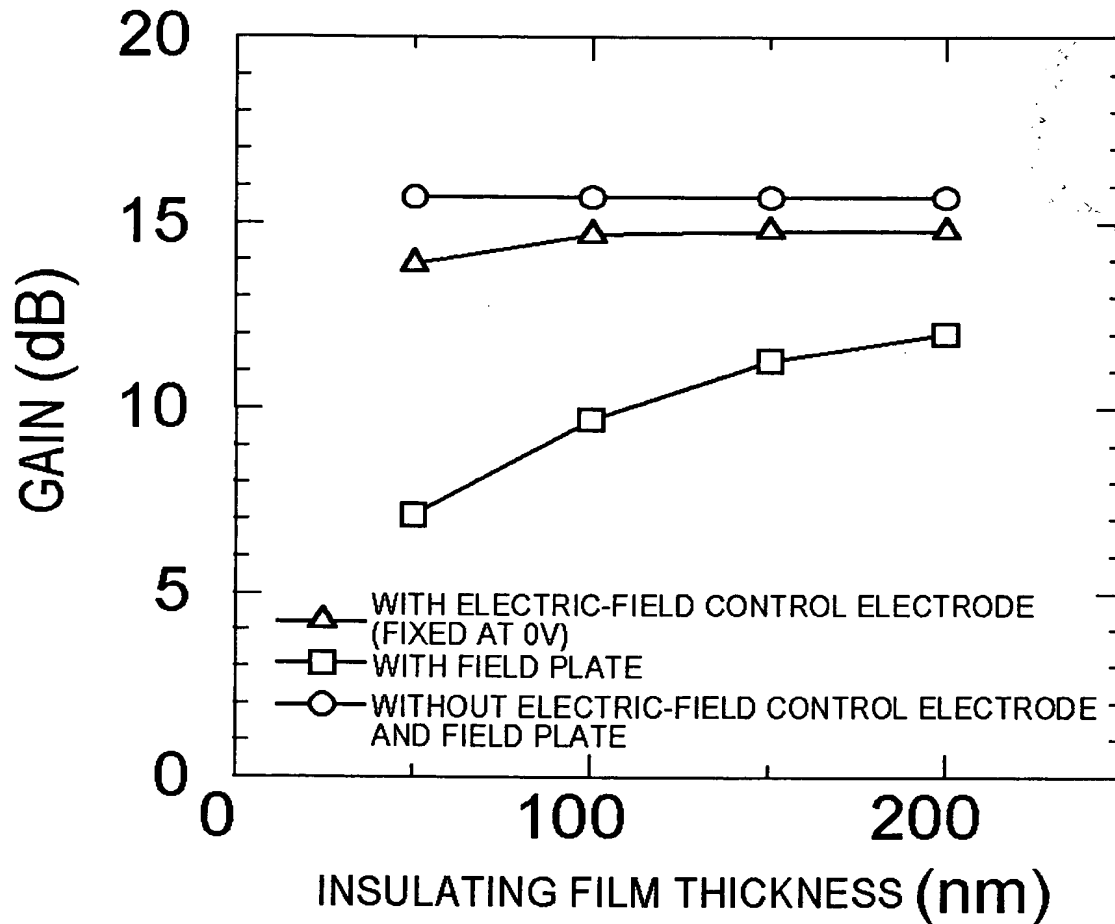


INSULATING FILM : SINGLE-LAYER OF SiN

SIZE OF ELECTRIC-FIELD CONTROL ELECTRODE : $1.0\mu\text{m}$

DISTANCE BETWEEN GATE ELECTRODE
AND ELECTRIC-FIELD CONTROL ELECTRODE : $0.5\mu\text{m}$

FIG. 31



INSULATING FILM : SINGLE-LAYER OF SiN

FIELD PLATE LENGTH : $1\mu\text{m}$

SIZE OF ELECTRIC-FIELD CONTROL ELECTRODE : $0.5\mu\text{m}$

DISTANCE BETWEEN GATE ELECTRODE
AND ELECTRIC-FIELD CONTROL ELECTRODE : $0.5\mu\text{m}$